

WHAT IS CLAIMED IS:

1. A semiconductor laser device comprising:

a base;

a semiconductor laser configured to be supported  
5 by the base; and

a collimate lens configured to have a portion  
opposed to a light-outgoing region of the semiconductor  
laser, and a portion to be adhered to the base,

10 wherein a notch is formed at the base, and held  
between a portion to which the collimate lens is  
adhered and a portion which supports the semiconductor  
laser, of the base.

2. A semiconductor laser device according to  
claim 1, wherein

15 in the base, the notch is formed on each side of  
the portion which supports the semiconductor laser, and  
the collimate lens is adhered to portions of the base  
opposite to the portion which supports the  
semiconductor laser, with the respective notches  
20 intervened therebetween.

3. A semiconductor laser device according to  
claim 1, further comprising:

25 a spacer configured to intervene between the base  
and the collimate lens and define a space between the  
light-outgoing region of the semiconductor laser and  
the collimate lens.

4. A semiconductor laser device according to

claim 1, wherein

a projection, which defines a space between the light-outgoing region of the semiconductor laser and the collimate lens, is formed on the base.

5 5. A semiconductor laser device according to  
claim 1, wherein

the collimate lens is formed in a cylindrical shape, a central portion of a peripheral surface of the collimate lens is opposed to the light-outgoing region  
10 of the semiconductor laser, and both end portions of the peripheral surface of the collimate lens are adhered to the base.

6. A semiconductor laser device according to  
claim 1, wherein

15 the base has a first surface on which the semiconductor laser is mounted, and a second surface which connects with the first surface and is aligned with a surface of the semiconductor laser, the surface having the light-outgoing region, and

20 the collimate lens is adhered to a portion of the second surface of the base, the portion is close to an edge made by the first surface and the second surface.

7. A semiconductor laser device comprising:

a base;

25 a semiconductor laser configured to be supported by the base;

a collimate lens configured to have a portion

opposed to a light-outgoing region of the semiconductor laser, and a portion to be adhered to the base,

wherein a notch is formed at the collimate lens, the notch held between the portion opposed to the light-outgoing region of the semiconductor laser and the portion to be adhered to the base.

8. A semiconductor laser device according to claim 7, wherein

in the collimate lens, the notch is formed on each side of the portion opposed to the light-outgoing region of the semiconductor laser, and the collimate lens is adhered to the base at portions of the collimate lens, the portions located opposite to the semiconductor laser, with the respective notches intervened therebetween.

9. A semiconductor laser device according to claim 7, further comprising:

a spacer configured to intervene between the base and the collimate lens and define a space between the light-outgoing region of the semiconductor laser and the collimate lens.

10. A semiconductor laser device according to claim 7, wherein

a projection, which defines a space between the light-outgoing region of the semiconductor laser and the collimate lens, is formed on the base.

11. A semiconductor laser device according to

claim 7, wherein

the collimate lens is formed in a cylindrical shape, a central portion of a peripheral surface of the collimate lens is opposed to the light-outgoing region of the semiconductor laser, and both end portions of the peripheral surface of the collimate lens are adhered to the base.

12. A semiconductor laser device according to claim 7, wherein

10 the base has a first surface on which the semiconductor laser is mounted, and a second surface which connects with the first surface and is aligned with a surface of the semiconductor laser, the surface having the light-outgoing region, and

15 the collimate lens is adhered to a portion of the second surface of the base, the portion is close to an edge made by the first surface and the second surface.